BRUHATH BANGALORE MAHANAGARA PALIKE

Name of work: Improvements of roads and drains in Jakkur Layout in ward No. 07-Byatarayanapura, Kodigehalli Sub Division.

	Description of work	No.	Dimensions			Qty	Rate	Unit	Amount
			L	B	D				
1	2	3	4	5	6	7	8	9	10
1	KSRB2-4. Refilling Available earth around pipe lines, cable in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lean upto 50m and lift upto 1.5m including cost of all labour complete as per specifications., (Pg No.6, It No. 2.11)								
	Basic rate		72.00						
	Add A.W. 8%		5.76						
	Total		77.76						
	DRAIN								
	Ist A cross RCC Drain	2	160.00	0.65	0.30	62.40			
					Total:-	**62.40**	77.76	Cum	4853.00
2	Refixing Stone slabs of drains and pointing in CM(1:3)(Pg No.25, It No. 5.33)								
	Basic rate		73.00						
	Add A.W. 8%		5.84						
	Total		78.84						
	Road Next to Doddamma temple	1	100.00	0.45		45.00			
	cross road	1	70.00	0.45		31.50			
					Total:-	**76.50**	78.84	Sqm	6032.00
3	KSRB 2-2.2:Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **ORDINARY soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches , stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications and direction of the Engineer-in-charge. Specification. No.KBS 2.1(b)/2.3.5. (P-5, It. No.2.1)								
	Basic rate		148.00						
	Add A.W. 8%		11.84						
	Total		159.84						
	Road Next to Doddamma temple	1	72.00	3.00	0.30	64.80			
	Cross road (For Road cut portion)	1	68.00	3.00	0.30	61.20			
	cross road towards Jakkur Main road(Full width)	1	15.00	8.30	0.30	37.35			
	Only road cut portion	1	27.00	6.00	0.30	48.60			

	DRAIN								
	Ist A cross RCC Drain	2	155.00	0.90	0.90	251.10			
	Middle road	2	19.00	0.90	0.90	30.78			
	Cross drain towards SWD	2	25.00	0.90	0.90	40.50			
	Retaining Wall Near Sanjeevininagara (For Foundation)	1	7.50	1.20	1.20	10.80			
	Culvert	3	6.50	1.80	0.90	31.59			
	Desilting of drains	2	168.00	0.90	0.90	272.16			
					Total:-	**848.88**	159.84	Cum	135685.00
4	**KSRB 4-1.3:** Providing and laying in position plain cement concrete of nominal mix 1:4:8 using **40mm** and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.12, It.4.3)								
	Basic rate		4695.00						
	Add A.W. 8%		375.60						
	Total		5070.60						
	Road Next to Doddamma temple	1	72.00	3.00	0.15	32.40			
	Cross road (For Road cut portion)	1	68.00	3.00	0.15	30.60			
	cross road towards Jakkur Main road(Full width)	1	15.00	8.30	0.15	18.68			
	Only road cut portion	1	27.00	6.00	0.15	24.30			
	DRAIN								
	Ist A cross RCC Drain	2	155.00	0.90	0.15	41.85			
	Middle road	2	19.00	0.90	0.15	5.13			
	Cross drain towards SWD	2	25.00	0.90	0.15	6.75			
	Retaining Wall Near Sanjeevininagara (For Foundation)	1	7.50	1.20	0.15	1.35			
	Culvert	3	6.50	1.80	0.15	5.27			
						166.32	5070.60	Cum	**843342.192**
5	**KSRB4-1.6:** Providing and laying in poistion plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Basic rate		5084.00						
	Add A.W. 8%		406.72						
	Total		5490.72						

	Drain Bottom								
	Ist A cross RCC Drain	2	155.00	0.15	0.90	41.85			
	Cross drain towards SWD	2	25.00	0.15	0.90	6.75			
	Middle road	2	19.00	0.15	0.90	5.13			
	Culvert	3	6.50	0.15	1.80	5.27			
	Drain Side wall								
	Ist A cross RCC Drain	4	155.00	0.15	0.60	55.80			
	Cross drain towards SWD	4	25.00	0.15	0.60	9.00			
	Middle road	4	19.00	0.15	0.60	6.84			
	Retaining wall Near Sanjeevininagara	1	7.50	0.80	3.60	21.60			
						152.24	5490.72	Cum	835880.00
6	**KSRB 4-48:** Providing and laying in cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complate (exclusive of cost of steel and fabrication charges) **(Pg No. 18, It No. 4.48)**								
	Basic rate		**5863.00**						
	Add A.W. 8%		**469.04**						
	Total		**6332.04**						
	Roads								
	Road Next to Doddamma temple	1	72.00	3.00	0.15	32.40			
	Cross road (For Road cut portion)	1	68.00	3.00	0.15	30.60			
	cross road towards Jakkur Main road(Full width)	1	15.00	8.30	0.15	18.68			
		1	27.00	6.00	0.15	24.30			
						105.98	6332.04	Cum	671038.00
7	**KSRB 5.3-1:**Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3)								
	Basic rate		3200.00						
	Add A.W. 8%		256.00						
	Total		3456.00						
	culvert	6	7	0.45	0.60	11.34			
						11.34	3456.00	Cum	39192.00

8	**KSRB 5.3-1:**Providing ruled pointing of course stone msonry with cement mortar 1:3 20 mm deep, after raking joints to depth of 20 mm nicley lining, including cost of materials, labour, curing etc., complete as per specifications and directions of the engineer-in-charge. (P-112, Item No. 15.8)								
	Basic rate		**33.00**						
	Add A.W. 8%		2.64						
	Total		**35.64**						
	Ist A cross RCC Drain	2	155.00		0.90	279.00			
	Cross drain towards SWD	2	25.00		0.90	45.00			
	Middle road	2	19.00		0.90	34.20			
	Culvert	6	7		0.60	25.20			
	slabs pointing	2	18		0.60	21.60			
						405.00	35.64	Sqm	14435.00
9	**KSRB 4-.9-2:**Providing and fabricating TMT . Steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking,placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design(laps and wasteage shall not measured and paid) cost of materials. labour. HOM of machinery complete as per specifications . (Page NO 17, Itm. NO. 4.46.2)								
	Basic rate		64635.00						
	Add A.W. 8%		5170.80						
	Total		69805.80						
	Qty @ 60Kg/cum	drain	0.065	X	71.64	4.66			
	Qty @ 100Kg/cum Retaining Wall		0.12	X	21.60	2.59			
					Total:-	**7.25**	59327.91	tonne	430045.00
10	**KSRB 4-6.4:** Providing and removing centering, shuttering strutting, propping etc., and removal of form work for **vertical surface** such as walls at any thickness including attached pilasters, buttressed, plinth and string courses cost of all materials, labour complete as per specifications (Page no.14, Item No. 4.31)								

	Basic Rate		284.00						
	Area Weightage 8%		22.72						
	total		306.72						
	Side wall								
	Ist A cross RCC Drain	8	155.00		0.60	744.00			
	Cross drain towards SWD	8	25.00		0.60	120.00			
	Middle road	8	19.00		0.60	91.20			
	Retaining wall Near Sanjeevininagara	2	7.50		3.60	54.00			
						1009.20	306.72	Sqm	309541.82
11	Providing and fixing 10cms thick pre cast **RCC covering slab** using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications **(Data Rate Approved)**								
	Data Rate		1777.75						
	For covering slab								
	Ist A cross RCC Drain	2.00	155.00	0.90		279.00			
	Cross drain towards SWD	2.00	25.00	0.90		45.00			
	Middle road	2.00	19.00	0.90		34.20			
	Jakkur Colony Drain	1.00	50.00	0.90		45.00			
	Missing Slabs (For existing drain)	1.00	170.00	0.90		153.00			
					Total	556.20	1777.75	Sqm	988785.00
12	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								

	Basic rate	=	4402.79						
	Total	=	4402.79						
	Culvert slabs	30	1.80	0.60		32.40			
					Total:-	**32.40**	4402.79	Cum	142651.00
13	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift. **(P171, It No. 22.7)**								
	Basic rate		90.00						
	Add A.W. 8%		7.20						
	Total		97.20						
	Roads								
	Road Next to Doddamma temple	1	72.00	3.00		216.00			
	Cross road (For Road cut portion)	1	68.00	3.00		204.00			
	cross road towards Jakkur Main road(Full width)	1	15.00	8.30		124.50			
		1	27.00	6.00		162.00			
						706.50	97.20	Sqm	68672.00
14	Providing Groove cutting for width of 5mm to 10mm and depth 80mm - 100mm including cost of cutting machine, generator and HOM of machinery, inlcuding cost of blade, coolant etc., including cleaning of groove and providing sand and hot bitumen fillars and filler metal etc., including cost of all materails, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications for concrete pavement.(P-175, I No: 22.8.1)								
	Basic rate		115.00						
	Add A.W. 8%		9.20						
	Total		124.20						
	Roads								
	Road Next to Doddamma temple	9	3			27.00			
	Cross road (For Road cut portion)	10	3.4			34.00			
	cross road towards Jakkur Main road(Full width)	5	7.05			35.24			
						96.24	124.20	Sqm	11953.00

	Providing and fixing M S Grating 260 x 260 mm (pg no. viii, sl no.237, code no.0771)								
	Basic rate		89.00						
	Add A.W. 8%		0.00						
	Total		89.00						
		40				40.00			
						40.00	89.00	Sqm	3560.00
16	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)				NDP AE(YNK)	848.88			80491.00
	Qty vide item no.1					~~403.58~~	94.82	Cum	~~38268.00~~
	Basic rate	=	62.20						
	Conveying charges for 10Kms								
	Rs. 2.00 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.				ADMINISTRATIVELY SANCTIONED FOR Rs 50 lacs				
	For 10 Km				Rupees Fifty lacs only				
	Rs.2.00X1.28TonneX10Km	=	25.60						
	Total	=	87.80		Under P-1878				
	Add Area Weightage 8%	=	7.02						
			94.82						
	Sub total				Registered to SE ( ) No ... Dt ... Subject to conditions contained in enclosed memo SE ( ) No ... Dt ...				4585405.87
17	Add 8 % KRIDL Charges								366832.47
18	Add 1% third party inspection charges				Estimate Administrative JCI/DPC/BBMP/11/2016-17 dated 18-10-2016 Rs 50 lacs				45854.06
19	Miscellaneous and rounding off								1907.60
							Total:-		**5000000.00**

Certificate:-

1)This is certified that the work spot comes under BBMP limits only.

2)The rates are as per CSR of 2015-16 year of PWD Bangalore Circle.

3)The Provisions made in estimate are adequate and necessary.

Joint Commissioner (Yelahanka Zone) BBMP, Bengaluru-92

Asst.Engineer
Ward no.7

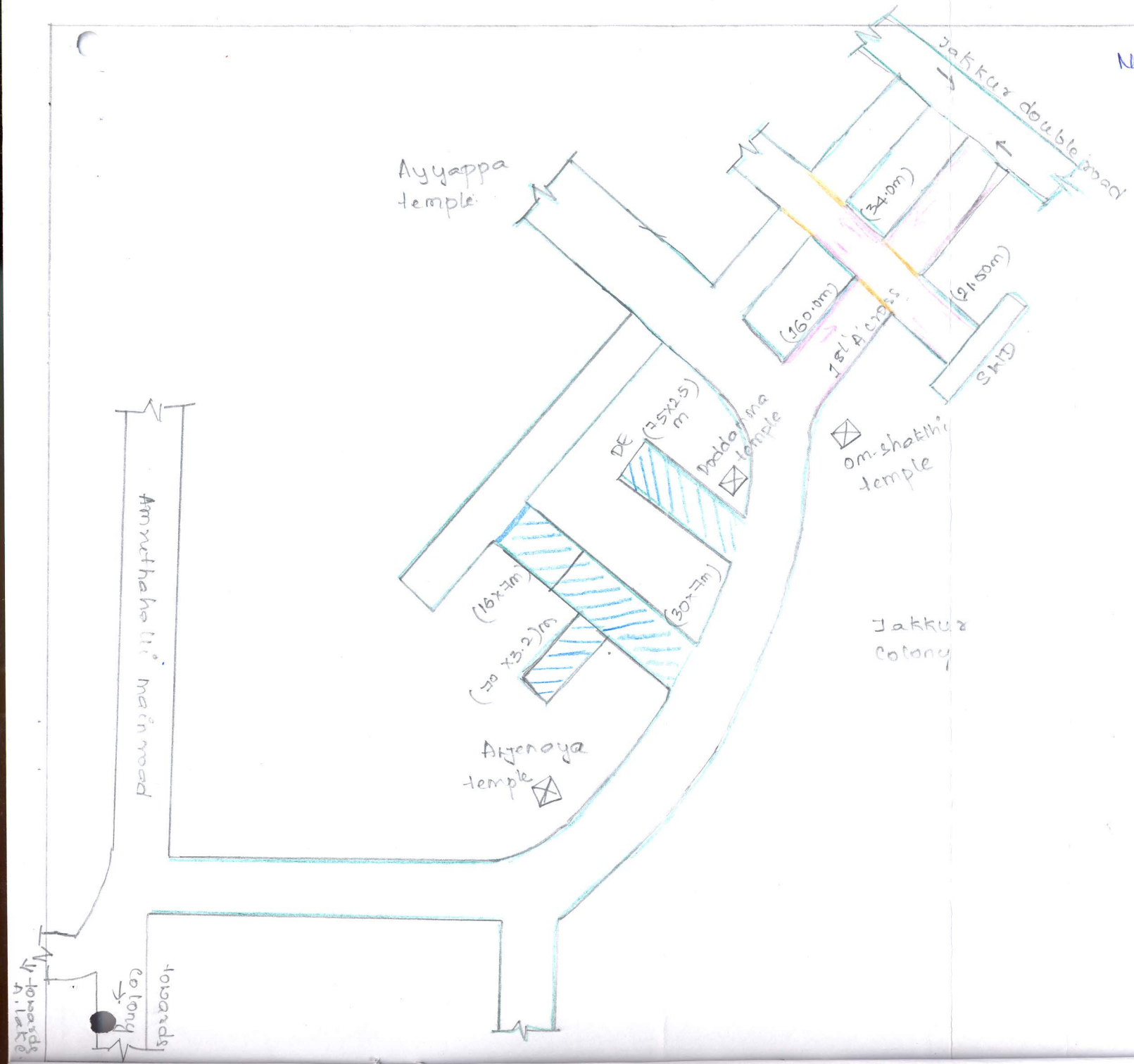
Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer 26/9/16.
Byatrayanapura Division
B.B.M.P.

Technical Sanction
Accorded For "50.00" lakh Rs
Head of A/C P1878
CER NO : 59 **Dt:** 19.10.16

TA CE (YNK)

Name of Work:- Improvements of roads and drains in Jakkur layout in Ward 7 Byatarayanapura, Kodigehalli sub-division



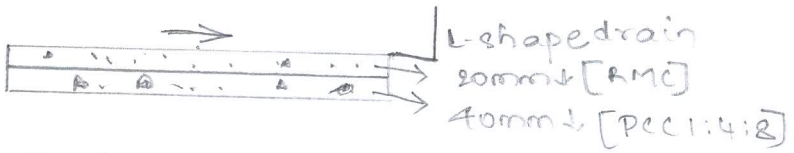
INDEX.

- culverts
- 20mm ↓ [RMC]
- RCC drain.

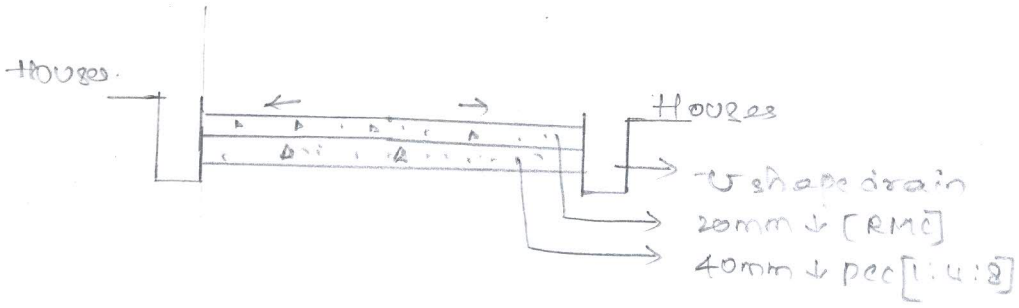
Ashylly.N.D
AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

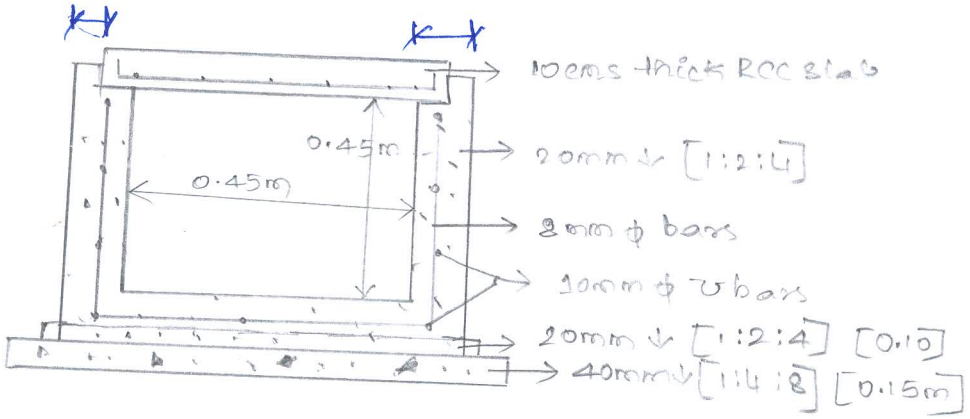
Name of Work:- Improvements of roads and drains in Jakkur Layout in Ward No. 07 - Byatarayanapura, Kodigehalli sub-division.



ROAD NEXT TO DODDAMMA TEMPLE



CROSS ROAD TOWARDS JAKKUR MAIN ROAD



SECTION OF RCC-DRAIN

M.N.D
AE(WA)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.